

FIG.1A

1 GGGTGGGTGGTAGAAAGTTTGGGCTCCCGCCCGTATCCACGCCCTATCGGCATAG
 61 GAGGATATCCGCCCGCCCGCGGATCGGCATTGAATGAACAGTGTCTTGCCCCGC
 121 CACCGCCACCATGAACAAGCTTTACATCGGCAACCTCAACGAGAGTGTGACCCCCGCAGA
 1 M N K L Y I G N L N E S V T P A D
 181 CTTGGAGAAAGTATTTCGGGAGCACAAAGATCTCCTACAGCGGCCAGTTCTTGGTCAAATC
 18 L E K V F A E H K I S Y S G Q F L V K S
 241 CGGCTACGCCCTTCGTGGATTGCCCCGACGAGCACTGGGGCGATGAAGGCCATCGAAACTTT
 38 G Y A F V D C P D E H W A M K A I E T F
 301 CTCGGGAAAGTAGAACTGCAAGGAAACGCTCTAGAGATTGAACACTCAGTCCCCAAAAA
 58 S G K V E L Q G K R L E I E H S V P K K
 361 ACAAGGAGTCGGAAAATACAGATCCGCAATATTCCACCTCAGCTCCGATGGGAAGTGCT
 78 Q R S R K I Q I R N I P P Q L R W E V L
 421 AGATAGCCTGCTGGCTCAGTACGGTACAGTGGAGAACTGTGAGCAAGTGAACACTGAAAG
 98 D S L L A Q Y G T V E N C E Q V N T E S
 481 TGAGACAGCGTGGTCAACGTCACTACTCTAACGGGAGCAGACCAGGCAAGCTATCAT
 118 E T A V V N V T Y S N R E Q T R Q A I M
 541 GAAGCTAAATGGCCCATCAACTGGAGAACCATGCCCTGAAGGTCTCTACATACTGATGA
 138 K L N G H Q L E N H A L K V S Y I P D E

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FIG. 1B

601 GCAGATAACACAAGGTCCTGAGAAATGGCGTCGTGGAGGCTTTGGGTCTCGGGGCCAGCC
158 Q I T Q G P E N E R R G G F G S R G Q P

661 CCGGCAAGGTCGCCCGTGGCAGCAGGGGCTCCAGCCAAGCAGCAGCCAGTGGACATCCC
178 R Q G S P V A A G A P A K Q Q P V D I P

721 TCTCCGGCTCCTGGTGCCTACGCAGTATGTAGGCGCTATCATTTGGCAAGGAGGTGCCAC
198 L R L L V P T Q Y V G A I I G K E G A T

781 CATCCGAAACATCACAAACAGACGCAGTCCAAAATAGACGTGCATAGGAAGGAGAAATGC
218 I R N I T K Q T Q S K I D V H R K E N A

841 GGGCGCTCGGAGAAGGCCATCAGCGTGCATTCAACCCCTGAAGGTGCTCCTCCGCGTG
238 G A A E K A I S V H S T P E G C S S A C

901 CAAGATGATCTTGGAGATTATGCACAAGGAGGCAAGGACACCAAAACGGCAGATGAAGT
258 K M I L E I M H K E A K D T K T A D E V

961 TCCCCCTGAAGATCCTGGCTCATAACAACCTTCGTGGGCGACTCATTTGGCAAGGAAGGCCG
278 P L K I L A H N N F V G R L I G K E G R

1021 GAACCTGAAGAAGTGGAGCAGGACACAGAGACGAAGATCACCATCTCATCGCTCCAGGA
298 N L K K V E Q D T E T K I T I S S L Q D

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FIG. 1C

1081 CCTCAGCTCTATAACCTGAGAGGACCATCACTGTGAAGGCGCCATTGAGAACTGTTG
318 L T L Y N P E R T I T V K G A I E N C C

1141 CAGGGCCGAGCAGGAGATCATGAAGAAAGTTCGAGAGGCTTACGAGAACGACGTGGCCGC
338 R A E Q E I M K K V R E A Y E N D V A A

1201 CATGAGCTTGCACTCCACCTCATCCCTGGGCTTAACCTGGCTGTAGGTCTCTTCCC
358 M S L Q S H L I P G L N L A A V G L F P

1261 AGCTTCATCCAGCGCTGTCCCTCCTCCAGCAGTGTCACCTGGGGTGTCCCTATAG
378 A S S A V P P P P S S V T G A A P Y S

1321 CTCCTTCATGCAGGCTCCGGAGCAGGAGATGGTACAAAGTTTCATCCCCGCCAGGCTGT
398 S F M Q A P E Q E M V Q V F I P A Q A V

1381 GGGCGCCATCATGGCAAGAAGGCGCAGCACATCAAACTCTCCCCGTTTCGCCAGCGC
418 G A I I G K K G Q H I K Q L S R F A S A

1441 CTCCATCAAGATTGCTCCACCAGAAACACCTGACTCCAAAGTTCGAATGGTCGTCATCAC
438 S I K I A P P E T P D S K V R M V V I T

1501 TGGACCCCGAGGCTCAGTTCAGGCTCAGGGAAGAATTATGGCAAACTAAAAGAAGA
458 G P P E A Q F K A Q G R I Y G K L K E E

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FIG. ID

1561 GAATTCTTTGGTCCCAAGGAGGAAGTAAAGCTAGAGACCCACATACGGGTTCCGGCTTC
478 N F F G P K E E V K L E T H I R V P A S

1621 AGCAGCCGGCCGTCATCGGCAAGCGGCAAAACGGTGAATGAGCTGCAGAACTTGAC
498 A A G R V I G K G G K T V N E L Q N L T

1681 TGCAGCTGAGGTGGTAGTGCCAAAGAGACCAGACCCCGGATGAGAAACGACCAAGTCATTGT
518 A A E V V V P R D Q T P D E N D Q V I V

1741 TAAGATCATCGGACATTTCTATGCCAGCCAGATGGCTCAGCGGAAGATCCGAGACATCCT
538 K I I G H F Y A S Q M A Q R K I R D I L

1801 GGCTCAAGTTAAGCAACAGCACCAAGGACAGAGCAACCTGGCCCCAGGCACGGAGGAA
558 A Q V K Q Q H Q K G Q S N L A Q A R R K

1861 GTGACCCCGCCCCCTCCTGTCCCATTGGCTCCAAGATCAGCAGGAGGAACACAGAACTGG
578 *

1921 AGGGCGGGTGGAGGGCCGGTGTTTTCACAGCGCCTGAGAATGAGTGGGAATCAG
1981 GGCAATTGGGCTGGCTGGAGATCAGGTTTGACACTGTATTGAGAAACAATGTTCCAGTG
2041 AGGAATCCTGATCTCTGCCCCCAATTGAGCCAGCTGGCCACAGCCACCCCTTGAATA
2101 TCACCAATTGCAATCATAGCTTGGGTGCTTTTAAACGTGGATTGTCTTGAAGTTCTCCAG
2161 CCTCCATGGAAGGATGGGTGATCCCATGGGGAAGAGAAATAAAATTTCCCTTCAGGTT
2221 TTAT

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mCRD-BP
hKOC
hnRNPK
Fibrillarin
Nucleolin
FMRP

R	R	G	G	F	G	S	R	G	Q	P	-	R	Q	G
G	R	R	G	L	G	Q	R	G	S	S	-	R	Q	G
G	R	G	G	F	-	D	R	M	P	P	G	R	G	G
G	R	G	G	F	G	D	R	G	G	-	-	R	G	G
G	R	G	G	F	G	G	R	G	G	-	G	R	G	G
L	R	R	G	D	G	R	R	R	G	G	G	R	G	G

FIG. 2A

Consensus:

G R G G F G R G G G R G G Q

mCRD-BP
hKOC
FMRP
mCRD-BP
hKOC
REV

Q	L	R	-	W	E	V	L	D	S	L	L
H	L	Q	-	W	E	V	L	D	S	L	L
Q	L	R	-	L	E	R	L	Q	-	I	D
T	I	S	S	L	Q	D	L	T	-	L	Y
T	I	S	P	L	Q	E	L	T	-	L	Y
Q	L	P	P	L	E	R	L	T	-	L	D

FIG. 2B

Consensus:

Q L L E L T L
T I W Q D I

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FIG. 2C-1

mCRD-BP(1)	L	L	V	I	R	V	A	V	G	A	I	I	G	K	E	G	A	T	I	R	N	I	V	I	T	K
mCRD-BP(2)	I	L	F	I	P	A	H	N	V	R	L	I	I	G	K	E	R	N	L	K	K	V	V	E	S	Q
mCRD-BP(3)	V	I	R	V	P	A	P	A	V	A	I	I	I	G	K	G	Q	H	I	K	N	L	L	Q	T	R
mCRD-BP(4)	L	L	I	V	P	S	P	N	G	R	V	I	I	G	K	G	A	T	V	K	N	I	L	I	E	N
hKOC(1)	I	L	L	A	I	N	A	N	V	R	L	I	I	G	K	G	R	N	L	K	N	I	L	I	E	Q
hKOC(2)	Q	F	I	V	P	L	P	S	V	A	I	I	I	G	K	G	Q	H	I	K	N	I	L	I	E	R
hKOC(3)	I	R	I	L	Q	A	P	S	A	G	V	I	I	G	K	G	Q	T	V	K	N	I	L	I	E	R
hKOC(4)	I	I	L	L	I	A	P	S	A	G	V	I	I	G	K	G	Q	T	V	K	N	I	L	I	E	R
hnRNP(1)	L	L	L	L	I	A	P	S	A	G	V	I	I	G	K	G	Q	T	V	K	N	I	L	I	E	R
hnRNP(2)	L	L	L	L	I	A	P	S	A	G	V	I	I	G	K	G	Q	T	V	K	N	I	L	I	E	R
hnRNP(3)	V	L	T	I	I	P	H	Q	A	G	S	I	I	G	K	G	Q	T	V	K	N	I	L	I	E	R
FMRP(1)	F	I	Q	V	P	R	E	D	L	M	L	A	I	G	K	G	Q	T	V	K	N	I	L	I	E	R
FMRP(2)	I	Q	V	V	P	R	E	D	L	M	L	V	I	G	K	G	Q	T	V	K	N	I	L	I	E	R
Consensus:	I	L	V	I	L	V	V	G	A	I	L	I	I	G	K	G	A	L	I	K	N	I	L	I	E	R

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FIG. 2C-2

mCRD-BP(1)	Q	T	Q	S	K	-	-	-	-	I	D	V	H	R	K	E	N	A	G	A	A	E	K	A	I	S	V
mCRD-BP(2)	D	T	E	T	K	-	I	T	-	I	S	S	L	Q	D	L	T	L	Y	N	A	A	R	T	I	T	V
mCRD-BP(3)	F	A	S	A	S	-	-	-	-	I	K	I	A	P	P	E	T	P	D	S	K	V	R	M	V	V	
mCRD-BP(4)	L	T	A	A	E	-	-	V	-	V	V	P	R	D	Q	K	E	N	D	Q	Q	V	V	I	V	K	
hKOC(1)	Q	T	Q	S	K	-	-	-	-	I	D	V	H	R	K	E	N	A	G	A	E	K	S	I	I	I	
hKOC(2)	D	T	D	T	K	-	I	T	-	I	S	P	L	Q	E	L	T	L	Y	N	A	R	T	I	T	V	
hKOC(3)	F	A	G	A	S	-	-	-	-	I	K	I	A	P	A	E	A	P	D	A	K	V	R	M	V	I	
hKOC(4)	L	S	S	A	E	-	-	V	-	V	V	P	R	D	Q	K	E	N	D	Q	Q	V	V	V	V	I	
hnRNPK(1)	D	Y	N	A	S	V	S	V	-	P	D	S	S	G	P	E	R	I	L	S	I	A	D	I	I	E	
hnRNPK(2)	N	T	Q	T	-	-	-	-	-	I	K	L	F	Q	E	C	C	P	H	S	T	R	V	V	L	I	
hnRNPK(3)	E	S	G	A	S	-	-	-	-	I	K	I	D	-	E	P	L	E	G	S	S	R	R	I	I	I	
FMRP(1)	V	P	G	V	T	A	-	-	-	I	D	L	D	E	D	T	C	F	H	I	Y	G	-	-	-	-	
FMRP(2)	K	S	G	V	V	R	-	-	-	V	R	I	E	A	E	N	E	K	N	V	P	-	-	-	-	-	

Consensus:	I	I	L	V	I	I	R	K	I	I	V	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
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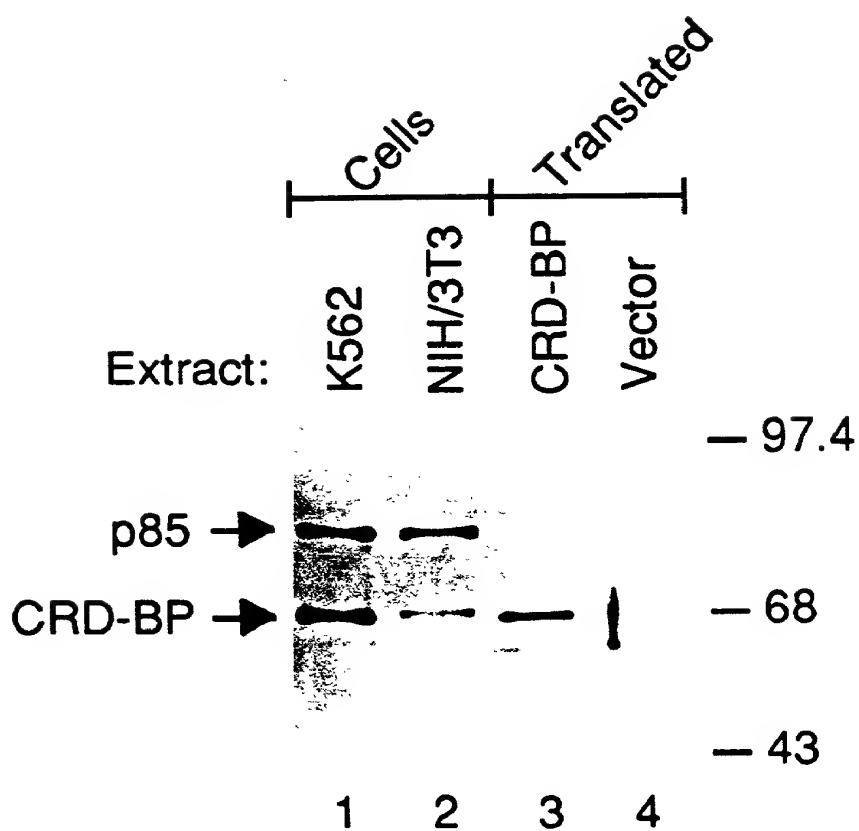


FIG. 3

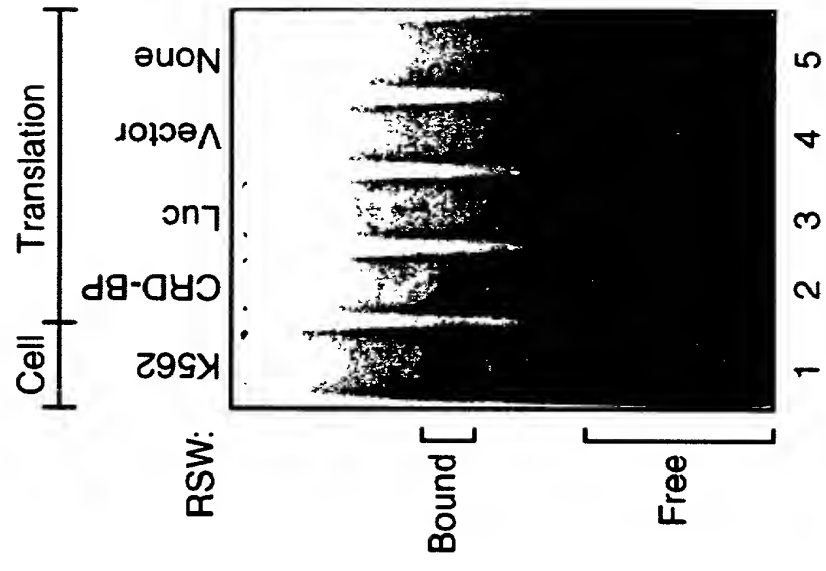


FIG. 4A

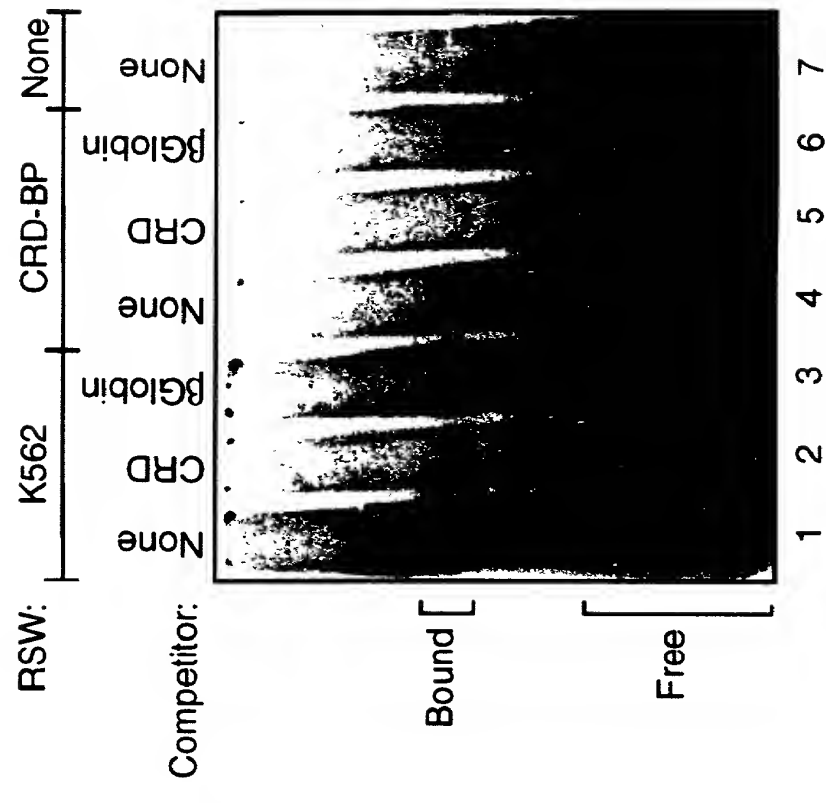


FIG. 4B

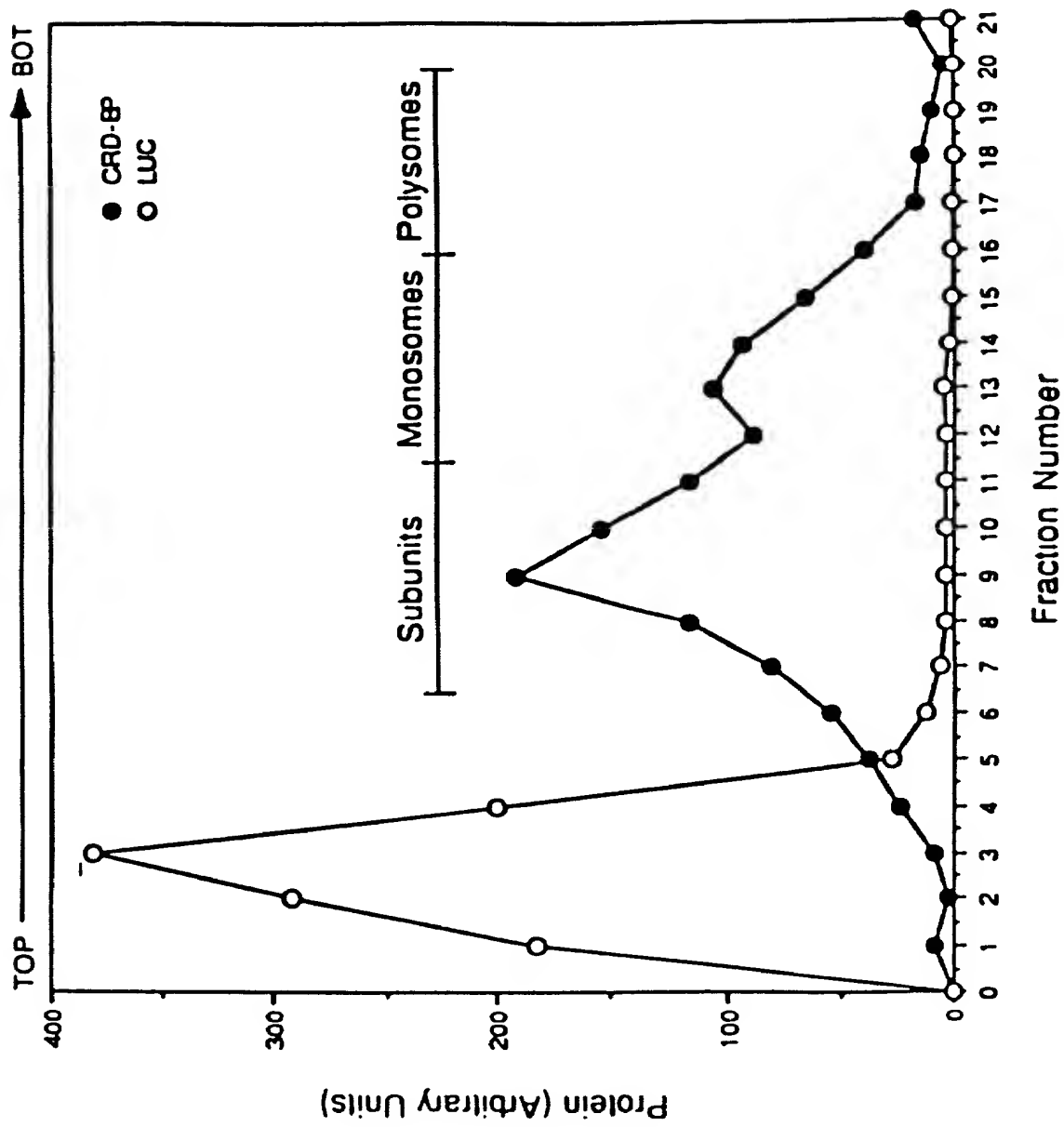
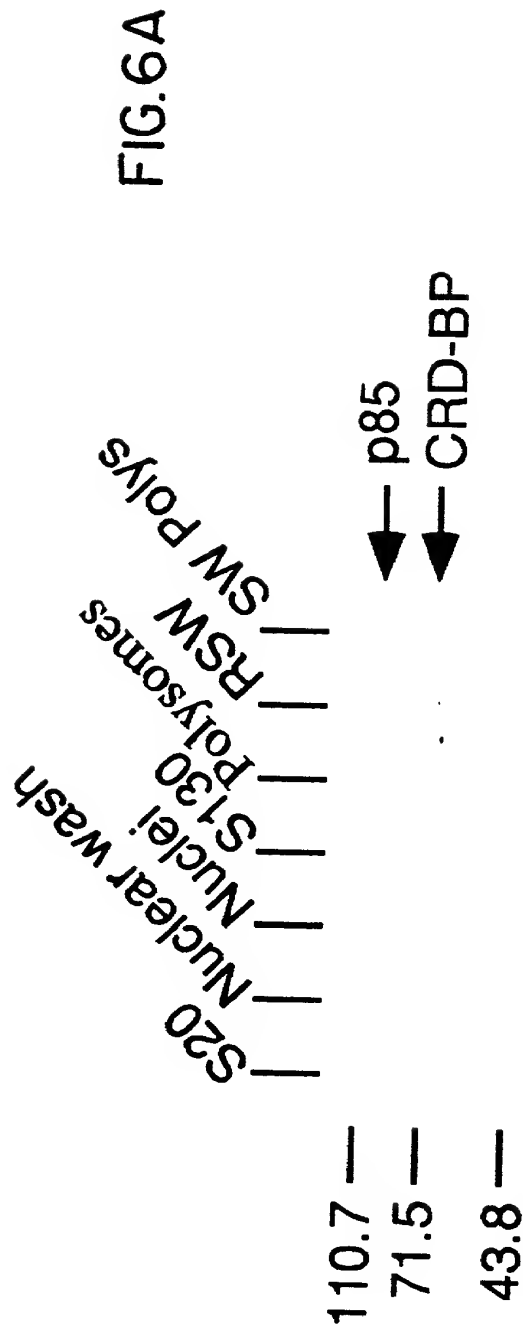


FIG. 5

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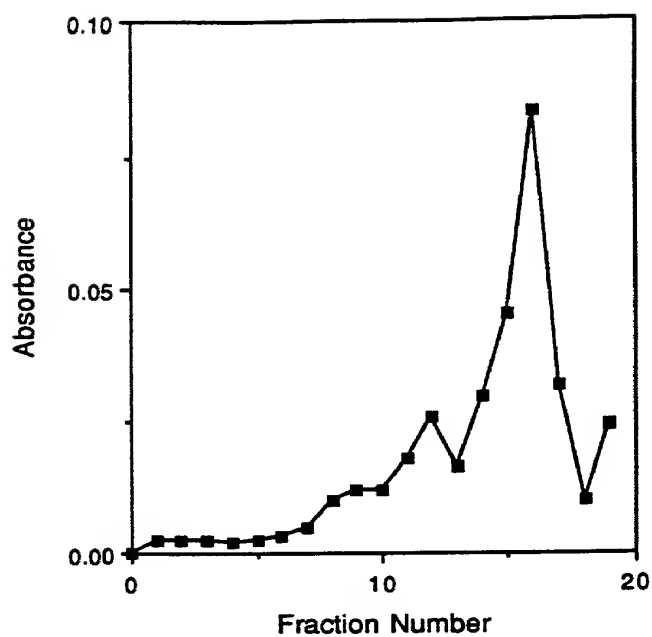


FIG. 7A



FIG. 7B

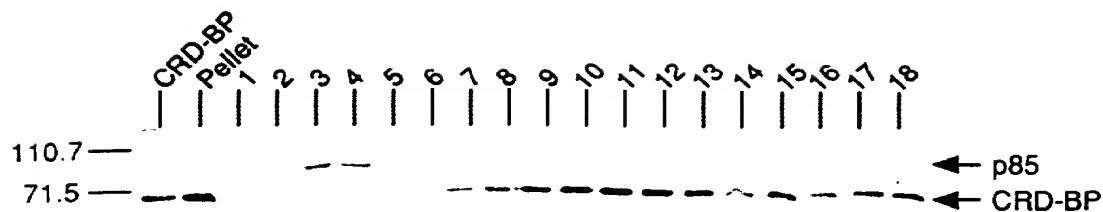


FIG. 7C

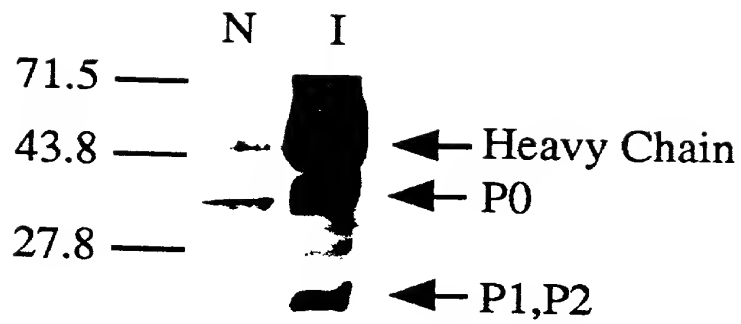


FIG. 8A

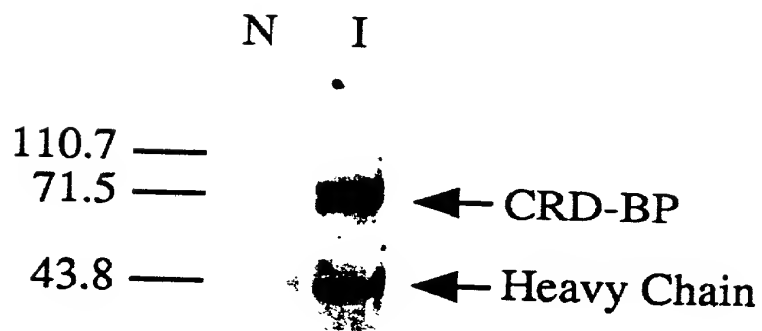


FIG. 8B